0590
0717
#10

RAW SEQUENCE LISTING   DATE: 07/23/2002
PATENT APPLICATION: US/09/981,397A   TIME: 15:12:40

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\07232002\I981397A.raw

```
 3 <110> APPLICANT: Axxima Pharmaceuticals AG
 4       Schubart, Daniel
 5       Habenberger, Peter
 6       Stein-Gerlach, Matthias
 7       Bevec, Dorian
 9 <120> TITLE OF INVENTION: Cellular Kinases Involved in Cytomegalovirus Infection and
their
10       Inhibition
12 <130> FILE REFERENCE: AXM-004.1 US
14 <140> CURRENT APPLICATION NUMBER: 09/981,397A
C--> 15 <141> CURRENT FILING DATE: 2002-06-28
17 <150> PRIOR APPLICATION NUMBER: 60/240,750
18 <151> PRIOR FILING DATE: 2000-10-16
20 <160> NUMBER OF SEQ ID NOS: 22
22 <170> SOFTWARE: PatentIn version 3.1
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25 <211> LENGTH: 18
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
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33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (18)..(18)
35 <223> OTHER INFORMATION: n = a,c,g or t
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39 <221> NAME/KEY: misc_feature
40 <222> LOCATION: (17)..(17)
41 <223> OTHER INFORMATION: v = a,g or c
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51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: cDNA probe for NIK-interacting kinase
56 <400> SEQUENCE: 2
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61 <211> LENGTH: 30
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
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P.6

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 68 <400> SEQUENCE: 3
 69 gtgctcaatg cagttgggcc ccttgtacac                                    30
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 73 <211> LENGTH: 27
 74 <212> TYPE: DNA
 75 <213> ORGANISM: Artificial Sequence
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: cDNA probe for cellular protein kinase RICK
 80 <400> SEQUENCE: 4
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 85 <211> LENGTH: 23
 86 <212> TYPE: PRT
 87 <213> ORGANISM: Artificial Sequence
 89 <220> FEATURE:
 90 <223> OTHER INFORMATION: NIK peptide immunogen
 92 <400> SEQUENCE: 5
 94 Cys Asn Pro Thr Asn Thr Arg Pro Gln Ser Asp Thr Pro Glu Ile Arg
 95 1               5                   10                  15
 98 Lys Tyr Lys Lys Arg Phe Asn
 99             20
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 34
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: loxP sequence for recombination vector
110 <400> SEQUENCE: 6
111 ataacttcgt atagcataca ttatacgaag ttat                               34
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 31
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: primer US-10(200900)SpeI
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123 gctcactagt ggcctagcct ggctcatggc c                                  31
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127 <211> LENGTH: 33
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
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132 <223> OTHER INFORMATION: primer US-10(198918)PacI
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139 <211> LENGTH: 33
140 <212> TYPE: DNA
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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/981,397A**

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144 <223> OTHER INFORMATION: primer US-9-3'PmeI
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153 <213> ORGANISM: Artificial Sequence
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156 <223> OTHER INFORMATION: primer US-5'CLAI
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163 <211> LENGTH: 20
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167 <220> FEATURE:
168 <223> OTHER INFORMATION: primer US-9(198789)
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177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: primer US-10(199100)
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188 <212> TYPE: DNA
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194 catccgggga atgggcgccc tcgtgaccta gtgttgcggg gcaaaaaggg tcttgccggc   120
196 ctcgctcgtg caggggcgta tctgggcgcc tgagcgcgca gtgggagcct tgggagccgc   180
198 cgcagcaggg ggcacacccg gaaccggcct gagcgcccgg gaccatgaac ggggaggcca   240
200 tctgcagcgc cctgcccacc attccctacc acaaactcgc cgacctgcgc tacctgagcc   300
202 gcggcgcctc tggcactgtg tcgtccgccc gccacgcaga ctggcgcgtc caggtggccg   360
204 tgaagcacct gcacatccac actccgctgc tcgacagtga aagaaaggat gtcttaagag   420
206 aagctgaaat tttacacaaa gctagattta gttacattct tccaattttg ggaatttgca   480
208 atgagcctga atttttggga atagttactg aatacatgcc aaatggatca ttaaatgaac   540
210 tcctacatag gaaaactgaa tatcctgatg ttgcttggcc attgagattt cgcatcctgc   600
212 atgaaattgc ccttggtgta aattacctgc acaatatgac tcctcctta cttcatcatg   660
214 acttgaagac tcagaatatc ttattggaca atgaatttca tgttaagatt gcagattttg   720
216 gtttatcaaa gtggcgcatg atgtccctct cacagtcacg aagtagcaaa tctgcaccag   780
218 aaggagggac aattatctat atgccacctg aaaactatga acctggacaa aaatcaaggg   840
220 ccagtatcaa gcacgatata tatagctatg cagttatcac atgggaagtg ttatccagaa   900
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222 aacagccttt tgaagatgtc accaatcctt tgcagataat gtatagtgtg tcacaaggac  960
224 atcgacctgt tattaatgaa gaaagtttgc catatgatat acctcaccga gcacgtatga 1020
226 tctctctaat agaaagtgga tgggcacaaa atccagatga aagaccatct ttcttaaaat 1080
228 gtttaataga acttgaacca gttttgagaa catttgaaga gataactttt cttgaagctg 1140
230 ttattcagct aaagaaaaca aagttacaga gtgtttcaag tgccattcac ctatgtgaca 1200
232 agaagaaaat ggaattatct ctgaacatac ctgtaaatca tggtccacaa gaggaatcat 1260
234 gtggatcctc tcagctccat gaaaatagtg gttctcctga aacttcaagg tccctgccag 1320
236 ctcctcaaga caatgatttt ttatctagaa aagctcaaga ctgttatttt atgaagctgc 1380
238 atcactgtcc tggaaatcac agttgggata gcaccatttc tggttctcaa agggctgcat 1440
240 tctgtgatca caagaccact ccatgctctt cagcaataat aaatccactc tcaactgcag 1500
242 gaaactcaga acgtctgcag cctggtatag cccagcagtg gatccagagc aaaagggaag 1560
244 acattgtgaa ccaaatgaca gaagcctgcc ttaaccagtc gctagatgcc cttctgtcca 1620
246 gggacttgat catgaaagag gactatgaac ttgttagtac caagcctaca aggacctcaa 1680
248 aagtcagaca attactagac actactgaca tccaaggaga agaatttgcc aaagttatag 1740
250 tacaaaaatt gaaagataac aaacaaatgg gtcttcagcc ttacccggaa atacttgtgg 1800
252 tttctagatc accatcttta aatttacttc aaaataaaag catgtaagtg actgttttttc 1860
254 aagaagaaat gtgtttcata aaaggatatt tatatctctg ttgctttgac ttttttttata 1920
256 taaaatccgt gagtattaaa gctttattga aggttctttg ggtaaatatt agtctccctc 1980
258 catgacactg cagtattttt tttaattaat acaagtaaaa agttgaattt ggttgaattt 2040
260 gctacatagt tcaattttta tgtctctttt gttaacagaa accactttta aaggatagta 2100
262 attattcttg tttataacag tgccttaagg tatgatgtat ttctgatgga agccattttc 2160
264 acattcatgt tcttcatgga ttatttgtta cttgtctaag atgcaatttg attttatgaa 2220
266 gtatataccc tttacccacc agagacagta cagaatccct gccctaaaat cccaggctta 2280
268 attgccctac aaagggttat taatttaaaa ctccattatt aggattacat tttaaagttt 2340
270 tatttatgaa ttcccttttaa aaatgatatt tcaaaggtaa aacaatacaa tataaagaaa 2400
272 aaaataaata tattaatacc ggcttcctgt ccccattttt aacctcagcc ttccctactg 2460
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279 <212> TYPE: PRT
280 <213> ORGANISM: Homo sapiens
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285 1               5                   10                  15
288 Lys Leu Ala Asp Leu Arg Tyr Leu Ser Arg Gly Ala Ser Gly Thr Val
289             20                  25                  30
292 Ser Ser Ala Arg His Ala Asp Trp Arg Val Gln Val Ala Val Lys His
293         35              .       40                  45
296 Leu His Ile His Thr Pro Leu Leu Asp Ser Glu Arg Lys Asp Val Leu
297     50                  55                  60
300 Arg Glu Ala Glu Ile Leu His Lys Ala Arg Phe Ser Tyr Ile Leu Pro
301 65                  70                  75                  80
304 Ile Leu Gly Ile Cys Asn Glu Pro Glu Phe Leu Gly Ile Val Thr Glu
305                 85                  90                  95
308 Tyr Met Pro Asn Gly Ser Leu Asn Glu Leu Leu His Arg Lys Thr Glu
309             100                 105                 110
312 Tyr Pro Asp Val Ala Trp Pro Leu Arg Phe Arg Ile Leu His Glu Ile
313             115                 120                 125
316 Ala Leu Gly Val Asn Tyr Leu His Asn Met Thr Pro Pro Leu Leu His
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317     130                    135                    140
320 His Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Asn Glu Phe His Val
321 145                    150                    155                    160
324 Lys Ile Ala Asp Phe Gly Leu Ser Lys Trp Arg Met Met Ser Leu Ser
325                    165                    170                    175
328 Gln Ser Arg Ser Ser Lys Ser Ala Pro Glu Gly Gly Thr Ile Ile Tyr
329                    180                    185                    190
332 Met Pro Pro Glu Asn Tyr Glu Pro Gly Gln Lys Ser Arg Ala Ser Ile
333                    195                    200                    205
336 Lys His Asp Ile Tyr Ser Tyr Ala Val Ile Thr Trp Glu Val Leu Ser
337          210                    215                    220
340 Arg Lys Gln Pro Phe Glu Asp Val Thr Asn Pro Leu Gln Ile Met Tyr
341 225                    230                    235                    240
344 Ser Val Ser Gln Gly His Arg Pro Val Ile Asn Glu Glu Ser Leu Pro
345                    245                    250                    255
348 Tyr Asp Ile Pro His Arg Ala Arg Met Ile Ser Leu Ile Glu Ser Gly
349                    260                    265                    270
352 Trp Ala Gln Asn Pro Asp Glu Arg Pro Ser Phe Leu Lys Cys Leu Ile
353                    275                    280                    285
356 Glu Leu Glu Pro Val Leu Arg Thr Phe Glu Glu Ile Thr Phe Leu Glu
357          290                    295                    300
360 Ala Val Ile Gln Leu Lys Lys Thr Lys Leu Gln Ser Val Ser Ser Ala
361 305                    310                    315                    320
364 Ile His Leu Cys Asp Lys Lys Lys Met Glu Leu Ser Leu Asn Ile Pro
365                    325                    330                    335
368 Val Asn His Gly Pro Gln Glu Glu Ser Cys Gly Ser Ser Gln Leu His
369                    340                    345                    350
372 Glu Asn Ser Gly Ser Pro Glu Thr Ser Arg Ser Leu Pro Ala Pro Gln
373          355                    360                    365
376 Asp Asn Asp Phe Leu Ser Arg Lys Ala Gln Asp Cys Tyr Phe Met Lys
377          370                    375                    380
380 Leu His His Cys Pro Gly Asn His Ser Trp Asp Ser Thr Ile Ser Gly
381 385                    390                    395                    400
384 Ser Gln Arg Ala Ala Phe Cys Asp His Lys Thr Thr Pro Cys Ser Ser
385                    405                    410                    415
388 Ala Ile Ile Asn Pro Leu Ser Thr Ala Gly Asn Ser Glu Arg Leu Gln
389          420                    425                    430
392 Pro Gly Ile Ala Gln Gln Trp Ile Gln Ser Lys Arg Glu Asp Ile Val
393          435                    440                    445
396 Asn Gln Met Thr Glu Ala Cys Leu Asn Gln Ser Leu Asp Ala Leu Leu
397          450                    455                    460
400 Ser Arg Asp Leu Ile Met Lys Glu Asp Tyr Glu Leu Val Ser Thr Lys
401 465                    470                    475                    480
404 Pro Thr Arg Thr Ser Lys Val Arg Gln Leu Leu Asp Thr Thr Asp Ile
405                    485                    490                    495
408 Gln Gly Glu Glu Phe Ala Lys Val Ile Val Gln Lys Leu Lys Asp Asn
409                    500                    505                    510
412 Lys Gln Met Gly Leu Gln Pro Tyr Pro Glu Ile Leu Val Val Ser Arg
413          515                    520                    525
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/23/2002
PATENT APPLICATION: US/09/981,397A   TIME: 15:12:41

Input Set : **A:\PTO.VSK.txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 18
Seq#:15; N Pos. 2141,2311,2452,2496